

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A telephone, comprising:

a ring detect circuit operable to detect electric ring signals received by tip and ring terminals of the telephone, said electric ring signals associated with a singular incoming telephone call;

a microprocessor, coupled to said ring detect circuit, configured to receive notification that electric ring signals of the singular incoming telephone call have been detected by said ring detect circuit; and

a ringer option switch, coupled to said microprocessor, having a crescendo setting that signals the microprocessor to generate ringer control signals corresponding to the electric ring signals of the singular incoming telephone call, wherein the ringer control signals include tone ringer information.

2. (Original) The telephone of Claim 1, further comprising an audible ring generator configured to receive the ringer control signals and provide a succession of audible ring signals, wherein at least one audible ring signal in the succession of audible ring signals has a volume that is higher than a volume of a preceding audible ring signal in the succession when the ringer option switch is set at the crescendo setting.

3. (Original) The telephone of Claim 2 wherein the audible ring generator comprises a piezo-electric device, a speaker, or other suitable sound-producing device.

4. (Original) The telephone of Claim 1, further comprising a CODEC configured to receive a sequence of ringer control signals from said microprocessor and provide a corresponding sequence of signals for producing a corresponding sequence of audible ring signals, wherein at least one audible ring signal in the sequence of audible ring signals has a

volume that is higher than a volume of a preceding audible ring signal in the sequence when the ringer option switch is set at the crescendo setting.

5. (Original) The telephone of Claim 1, further comprising an audible ring generator configured to receive the ringer control signals and provide a succession of audible ring signals, a first audible ring signal of the succession having a minimum volume and subsequent audible ring signals of the succession having increasing volume levels.

6. (Currently Amended) A telephone, comprising:
a ring detect circuit operable to detect electric ring signals received by tip and ring terminals of the telephone, said electric ring signals associated with a singular incoming telephone call;

a microprocessor configured to receive notification that electric ring signals of the singular incoming telephone call have been detected by said ring detect circuit; and
crescendo setting means for signaling the microprocessor to generate a succession of ringer control signals corresponding to the detected electric ring signals of the singular incoming telephone call, wherein the ringer control signals include tone ringer information,
wherein a first ringer control signal of the succession is used to generate a first audible ring signal having first volume and subsequent ringer control signals of the succession are used to generate corresponding audible ring signals of increasing volume levels.

7. (Currently Amended) A telephone, comprising:
a ring detect circuit operable to detect electric ring signals received by tip and ring terminals of the telephone, said electric ring signals associated with a singular incoming telephone call;
a microprocessor configured to receive notification that electric ring signals of the singular incoming telephone call have been detected by said ring detect circuit;

a displayable menu system in communication with said microprocessor, said menu system having a menu key, which when activated provides a user with one or more ringer options, including a crescendo ringing option; and

an audible ringer device controlled by said microprocessor, said audible ringer device, upon the telephone's receipt of electric ring signals of an incoming call, operable to generate a first audible ring signal having first volume followed by a succession of subsequent audible ring signals of increasing volume levels in response to a tone ringer signal generated by said microprocessor.

8. (Currently Amended) A telephone ringer apparatus, comprising:

an electronic telephone tone ringer configured to be coupled between tip and ring terminals of a telephone;

a ringer option switch coupled to said tone ringer having audible ring signal volume settings and a crescendo setting;

an audible ring signal volume controller coupled to said ringer option switch; and

an audible ring generating device, operable to generate a succession of audible ring signals characterized by a gradually increasing volume, said succession of audible ring signals corresponding to a succession of electrical ring signals of a singular incoming call received on the tip and ring terminals of said telephone, wherein the telephone ringer apparatus is configured to operate within a power range supported by the tip and ring terminals of said telephone.

9. (Original) The telephone ringer apparatus of Claim 8, further comprising a ring counter coupled to said audible ring signal volume control operable to count the number of ring signals associated with an incoming telephone call.

10. (Canceled)

11. (Currently Amended) A telephone, comprising:
- an electronic telephone tone ringer coupled between tip and ring terminals of the telephone;
- a ringer option switch coupled to said electronic telephone tone ringer having audible ring signal volume settings and a crescendo setting;
- an audible ring signal volume controller coupled to said ringer option switch, configured to control volume of tone ringer; and
- an audible ring generating device coupled to the audible ring signal volume controller, wherein the telephone is configured to operate within a power range supported by the tip and ring terminals of said telephone.

12. (Currently Amended) A method of providing a telephone ringing signal, comprising:
- selecting a gradual increase in audible ringing volume in response to a selection of a crescendo option from a slide switch;
- detecting a sequence of telephone electrical ring signals from a telephone line, said sequence of telephone electrical ring signals associated with a singular incoming telephone call;
- generating a sequence of ringer control signals from said sequence of electrical ring signals; and
- drawing power from the telephone line to generate generating a sequence of audible ring signals using said sequence of ringer control signals, at least one audible ring signal of said sequence of audible ring signals having a volume that is greater than a preceding audible ring signal of said sequence of audible ring signals.

13. (Currently Amended) A method of providing a telephone ringing signal, comprising:

detecting a sequence of electrical ring signals arriving on a telephone line, said sequence of electrical ring signals associated with a singular incoming telephone call; determining whether a ringer option switch is set to a crescendo setting; and drawing power from the telephone line to generate generating a sequence of audible ring signals corresponding to the detected sequence of electrical ring signals, a first of said sequence of audible ring signals having a first volume and one or more subsequent audible ring signals having a volume that is greater than the first volume.

14. (Original) The method of Claim 13, further comprising counting the number of detected electrical ring signals as the sequence of electrical signals arrives.

15. (Original) The method of Claim 14, further comprising generating a volume control signal for each detected electrical ring signal, each volume control signal having a value dependent upon the count number associated with the detected electrical ring signal.

16. (Currently Amended) An apparatus for providing a telephone ringing signal, comprising:

means for selecting a gradual increase in audible ringing in response to a selection of a crescendo option from a slide switch;

means for detecting a sequence of telephone electrical ring signals from a telephone line, said sequence of telephone electrical ring signals associated with a singular incoming telephone call;

means for generating a sequence of ringer control signals from said sequence of electrical ring signals; and

means for drawing power from the telephone line to generate generating a sequence of audible ring signals using said sequence of ringer control signals, at least one audible ring signal

of said sequence of audible ring signals having a volume that is greater than a preceding audible ring signal of said sequence of audible ring signals.

17. (Currently Amended) An apparatus for providing a telephone ringing signal, comprising:

means for detecting a sequence of electrical ring signals arriving on a telephone line, said sequence of electrical ring signals associated with a singular incoming telephone call;

means for determining whether a ringer option switch is set to a crescendo setting; and

means for drawing power from the telephone line to generate generating a sequence of audible ring signals corresponding to the detected sequence of electrical ring signals, a first of said sequence of audible ring signals having a first volume and one or more subsequent audible ring signals having a volume that is greater than the first volume.

18. (Original) The apparatus of Claim 16, further comprising means for counting the number of detected electrical ring signals as the sequence of electrical signals arrives.

19. (Original) The apparatus of Claim 17, further comprising means for generating a volume control signal for each detected electrical ring signal, each volume control signal having a value dependent upon a count number associated with the detected electrical ring signal.

20. (Currently Amended) A method of gently waking a sleeping person using a telephone, comprising:

selecting a gradual increase in audible ringing volume in response to a selection of a crescendo option from a slide switch;

receiving a first electrical ring signal across tip and ring terminals of a telephone;

drawing power from the tip and ring terminals of a telephone to generate generating a
first audible signal from the first electrical ring signal;

receiving a second ring signal across the tip and ring terminals of the telephone; and
generating a second audible signal from the second electrical ring signal, said second
audible signal having a higher volume than the first audible signal;

wherein both the first and second ring signals are associated with a singular incoming
telephone call.